

--ABSTRACT OF THE DISCLOSURE

A six-degrees-of-freedom horizontal movement dynamic simulator may have a modular design without hydraulic or pneumatic systems. The dynamic simulator has three movement control units of symmetrical structure that are located at positions relative to each other so as to form three sides of an equilateral triangle. A load-carrying platform is connected to the three movement control units by three universal-joint yoke mechanisms that are relatively positioned on the load-carrying platform so as to form three sides of an equilateral triangle. The dynamic simulator has 6 degrees freedom of motion when a control unit moves rectilinearly so that the load-carrying platform will have spatial translation motion and angular motion.--